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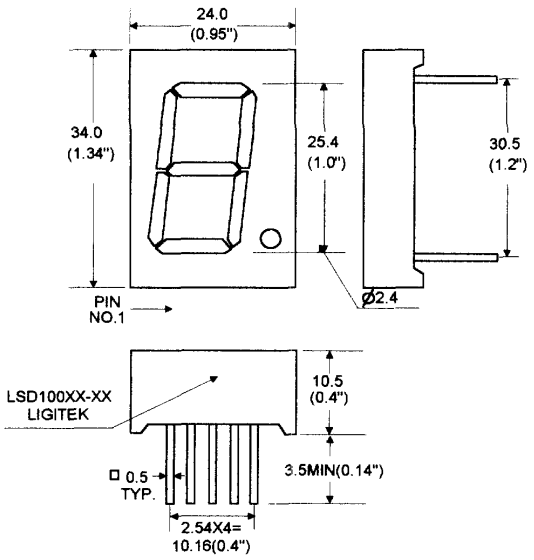
Jameco Part Number 97172

LIGITEK

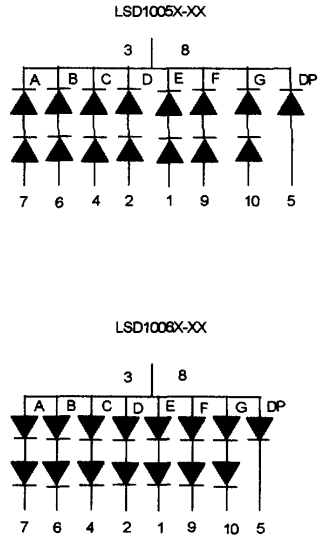
SINGLE DIGIT LED DISPLAY (1.0 Inch) **LSD1005X/6X** series

PACKAGE DIMENSION



NOTE: All Dimension Are In Millimeters And (Inch)
Tolerance Is ±0.25(0.01") Unless Otherwise Noted

INTERNAL CIRCUIT DIAGRAM



- **Connection To Electrical Schematic**

Electrical Connection

PIN NO.	LSD1005X-XX	PIN NO.	LSD1006X-XX
1	Anode E	1	Cathode E
2	Anode D	2	Cathode D
3	Common Cathode	3	Common Anode
4	Anode C	4	Cathode C
5	Anode DP	5	Cathode DP
6	Anode B	6	Cathode B
7	Anode A	7	Cathode A
8	Common Cathode	8	Common Anode
9	Anode F	9	Cathode F
10	Anode G	10	Cathode G

• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λP (nm)	Δλ (nm)	Electrical					IV-M
						Vf(v)			Iv(mcd)		
	material	emitted				Min	Typ.	Max	Min	Typ.	
LSD10055-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	4.2	7.0	2:1
LSD10051-XX	GaP	Red		697	90	1.7	2.1	2.8	1.2	2.0	2:1
LSD10052-XX	GaP	Green		565	30	1.7	2.1	2.8	3.0	5.0	2:1
LSD10053-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	2.7	4.5	2:1
LSD10054-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	3.0	5.0	2:1
LSD10065-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.4	4.2	7.0	2:1
LSD10061-XX	GaP	Red		697	90	1.7	2.1	2.8	1.2	2.0	2:1
LSD10062-XX	GaP	Green		565	30	1.7	2.1	2.8	3.0	5.0	2:1
LSD10063-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	2.7	4.5	2:1
LSD10064-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	3.0	5.0	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red			Green		Yellow			Orange		Unit	Remark
Forward Current Per Chip	SR		H		G		Y			E		
	40		15		30		20			30	mA	
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200		60		120		80			120	mA	
Power Dissipation Per Chip	110		45	100		85			100		mW	
Derating Linear From 25°C Per Chip	0.45		0.25	0.45		0.45			0.45		mA/ °C	
Reverse Current Per Any Chip	10			10		10			10		μA	
Operating Temperature	-25°C TO +85°C											
Storage Temperature	-25°C TO +85°C											
Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260°C												

• Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=20mA
Luminous Intensity Per Chip	Iv	mcd	If=10mA
Peak Emission Wavelength	λP	nm	If=20mA
Spectral Line Half-Width	Δλ	nm	If=20mA
Reverse Current Any Chip	Ir	μA	Vr=5V
Luminous Intensity Matching Ratio	IV-M		